

Product Data

TITANPRO SM598N Development Data

FOR THIN WALLED, HIGH CLARITY INJECTION MOLDING

CHARACTER Polypropylene random copolymer.
Titanpro SM598N is a clarified grade designed for high transparency articles which complies with the U.S. Food and Drug Administration (FDA) regulation as specified in 21 CFR 177.1520(a)(3)(i) and (c)3.1a.
TSCA Registry: CAS# 9010-79-1

APPLICATIONS High transparency thin walled containers, storage containers.

ADVANTAGES Excellent clarity, good surface finish and color, cycle time reduction with low processing melt temperature, utilities cost saving, good dimensional stability, good balance of rigidity and impact resistance.

FABRICATION Equipment - injection molding machine.
Techniques - standard processing.

<u>TYPICAL RESIN PROPERTIES</u> ^(a)	<u>UNIT</u>	<u>SM598N</u>	<u>ASTM METHOD</u> ^(b)
Melt Flow Rate, at 230°C	g/10 min	30	D1238
Density	g/cm ³	0.9	D1505
Tensile Strength at Yield	kg/cm ²	300	D638
Elongation at Yield	%	12	D638
Flexural Modulus	kg/cm ²	12000	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	5	D256A
Heat Deflection Temperature at 4.6 kg/cm ²	°C	88	D648
Rockwell Hardness	R scale	96	D785A
Water absorption after 24 hours	%	0.02	D570

(a) Values shown are average and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

Shrinkage : 1.3 - 1.4% depending on the product wall thickness and molding parameters.

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